ActivBoard 500 PRO Adjustable System

INTERACTIVE DISPLAY

Product Specifications

ActivBoard 500 Pro Adjustable
with PRM-30a or PRM-35 projector

ActivBoard 500 Pro Adjustable
with EST-P1 projector

THIS DOCUMENT CONTAINS SPECIFICATIONS FOR

ActivBoard
Adjustable Frame
Projector

DESCRIPTION

The ActivBoard 500 Pro with Dual-User Pen and Touch capability is available in 78", 87" and 95" versions with integrated slim-line speakers and amplifier, ActivInspire Professional Edition, Promethean ActivOffice and Promethean Applications software. The Adjustable System includes a height-adjustable wall mount and choice of Extreme Short Throw or Short Throw projector.

This ActivBoard System is backed by the Promethean Projector Promise, for additional information please visit: www.PrometheanWorld.com/ProjectorPromise

SYSTEM OVERVIEW

Installation

The installation of this product should be completed by a Promethean Certified Installer. Components supplied and minimum specifications stated have been tested and are required for optimal performance. Use of components not supplied by Promethean or not meeting minimum specifications may impact performance and affect warranty. Contact your Promethean partner or visit www.PrometheanKB.com for more information

Warranty

For Promethean Warranty Information and Terms and Conditions please visit: www.PrometheanWorld.com/Warranty. The cleaning and maintenance of projectors is the Customer's responsibility and is not part of any of Promethean's warranty services. Failures or degradation in the projector or lamp's functionality or quality of operation arising as a result of: incorrect, insufficient and ineffective cleaning regimes (which vary dependant on the environment within which they are installed), or cleaning regimes not in accordance with the projector user manuals, or as a result of inappropriate or unsuitable changes to projector settings are not covered under Promethean's warranty and will reduce the expected lifetime of projectors and lamps for which Promethean cannot be held responsible. Promethean's warranty on the original lamp installed in a purchased Promethean projector is 3 years or 3000 hours of "corresponding value" (whichever comes first) for LCD projectors and when used in "normal" or "eco" modes for DLP projectors (excluding the PRM-32 which is only covered for 6 months or 500 hours, whichever comes first) and is subject to the above. The Customer is responsible for ensuring the purchased projector is suitable for the environment within which they are installed. Go to www.prometheankb.com or www.prometheanplanet.com for guidance on projector maintenance and best practices.

Support

Online Support for all Promethean Products available from: www.PrometheanKB.com

Complete System Weight (approx.)

ActivBoard 578 Pro including;
PRM-30a Projector 98.9kg (218lb)
PRM-35 Projector 95.9kg (211.5lb)
ActivBoard 587 Pro including;
PRM-30a Projector 101.9kg (224.6lb)
PRM-35 Projector 98.9kg (218.1lb)
ActivBoard 595 Pro including;
PRM-30a Projector 108.1kg (238.3lb)
PRM-35 Projector 105.1kg (231.8lb)

ActivBoard 578 Pro including;
EST-P1 Projector 98.6kg (217.3lb)
ActivBoard 587 Pro including;
EST-P1 Projector 101.6kg (223.9lb)
ActivBoard 595 Pro including;
EST-P1 Projector 107.8kg (237.6lb)

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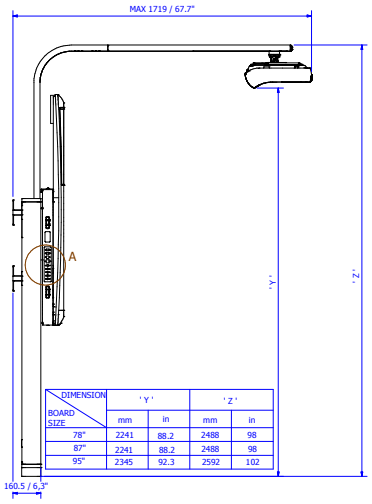
UPGRADE AND ACCESSORY OPTIONS

Cable Wall Box	Connectivity box with inputs for 2 x fully wired VGA (to support VESA DDC) plus 3.5mm stereo jack audio inputs, USB-B input (for ActivBoard), S-Video, composite video plus auxiliary audio jack inputs, Cat 5e Ethernet input. Allows additional flexibility during installation, where the computer is located further away from the System
ActivWand 50	Wireless, battery-free and extended reach input device for the ActivBoard – 540mm (21.2in) in length; "left click", cursor and hover, just like a mouse
Dry Erase Whiteboard	Optional dry erase whiteboard, can use 1 or 2 dry erase whiteboards per System
ActivBoard System Shelf	Storage for 1 laptop, with a maximum size of a standard 43cm (17in) laptop. Lockable System Shelf also available as an option

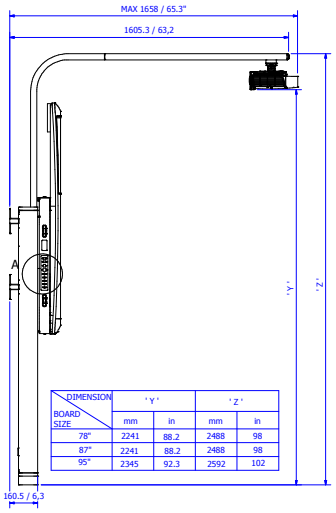
TECHNICAL DRAWING

PRM-30a



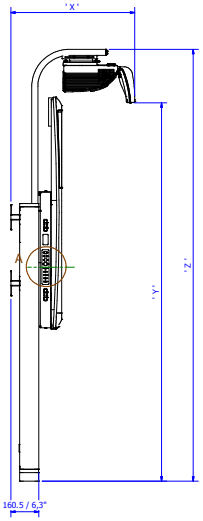
DIMENSION / BOARD SIZE	'Y' mm	'Y' in	'Z' mm	'Z' in
78"	2241	88.2	2488	98
87"	2241	88.2	2488	98
95"	2345	92.3	2592	102

PRM-35

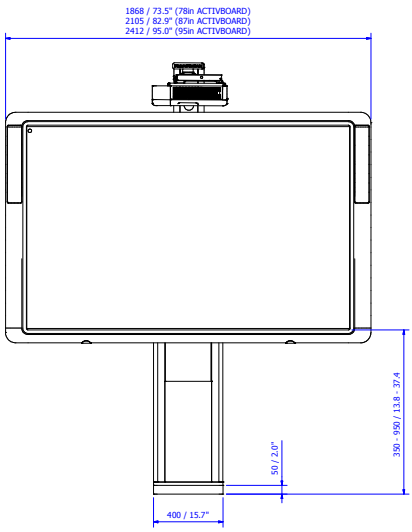


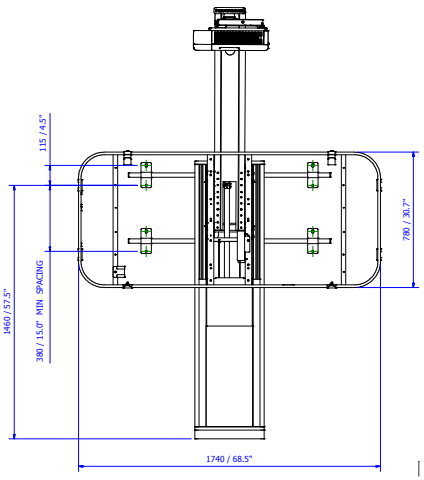
DIMENSION / BOARD SIZE	'Y' mm	'Y' in	'Z' mm	'Z' in
78"	2241	88.2	2488	98
87"	2241	88.2	2488	98
95"	2345	92.3	2592	102

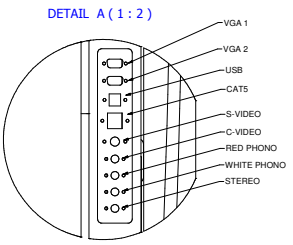
EST-P1



DIMENSION / BOARD SIZE	'X' mm ±10	'X' in ±0.4	'Y' mm +10 -30	'Y' in +0.2 -1.2	'Z' mm	'Z' in
78"	750	28.7	2284	89.9	2593	102.1
87"	730	28.0	2254	88.7	2563	100.9
95"	710	29.5	2284	89.9	2593	102.1







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ActivBoard 500 PRO

INTERACTIVE DISPLAY

Product Specifications

ACTIVBOARD GENERAL SPECIFICATIONS

Model	ActivBoard 500 Pro Range
Pen Internal Resolution	2730 points (lines) per inch
Pen Output Resolution	200 points (lines) per inch
Pen Tracking Rate	200 inches per second providing a fast response to pen commands
Pen Output Rate	160 coordinate pairs per second (single user) 80 coordinate pairs per second (dual user)
User Input	Cordless battery-free pen incorporating tip switch and side switch for full mouse functionality (ActivPen) and touch
Touch Resolution	200 points (lines) per inch
Touch Output Rate	80 coordinate pairs per second
Touch Response Rate	10 ms
Maximum Simultaneous Touches	2 with ActivInspire 4 with Windows 7
Digitising Technology	Passive Electromagnetic and Capacitive sensing interface
Power Requirement	Mains Powered; 18V Power Supply Unit
Connection to Computer	USB, 1 x 3m USB data cable supplied
Connection to Peripherals	2 x USB ports on left hand side
Screen Surface	Low Glare Melamine
Certifications	UL, CE, FCC
Operating Temperature Range	0°C to +40°C (32°F to 104°F)
Storage Temperature Range	-20°C to +60°C (-4°F to 140°F)
Storage Humidity	10% to 90% (non-condensing)
Dual User Functionality	**Pen:** 1 Instructor ActivPen and 1 Participant ActivPen can be used together in Dual-User Mode when using ActivInspire 1.5 Professional Edition and above **Pen and Touch:** 1 Participant ActivPen and simultaneous additional two-touch gesture supported when using ActivInspire 1.5 Professional Edition and above
Single User Functionality	**Pen:** 1 Instructor ActivPen **Touch:** Two-touch gesture supported when using ActivInspire 1.5 Professional Edition and above
Integrated USB Sound	Two integrated slim-line speakers and amplifier (with controls, inputs and outputs)
Packed Contents List	ActivBoard 587 Pro or ActivBoard 595 Pro, 2 Instructor ActivPens, 2 Participant ActivPens, 1 AMP PSU, Wall Mounting Brackets, User Guide, Access to ActivInspire Professional Edition, Promethean ActivOffice and Promethean Applications via download. (ActivInspire Professional Edition is also available on DVD on request), 1 x 3m USB data cable

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ActivBoard 500 PRO

INTERACTIVE DISPLAY

Product Specifications

INTEGRATED USB SOUND SPECIFICATIONS

Amplifier Power Output	20W per channel RMS (<1% distortion)
Controls	Volume, Bass, Treble, on/off
Amplifier Frequency Response	40Hz to 18kHz +/-3dB (at 1W)
USB Sound	USB Sound supported for Minimum System Requirements stated
Connectivity – Inputs (4)	Stereo PC, Stereo CD/DVD, Mono Auxiliary, Microphone to PC
Connectivity – Outputs (2)	2 Stereo
Power Requirement	18V 5 Amp

ACTIVBOARD SPECIFICATIONS

Model	**ActivBoard 578 Pro**	**ActivBoard 587 Pro**	**ActivBoard 595 Pro**
ActivBoard Size	78in	87in	95in
Resolution	12800 x 9200	14600 x 9200	17200 x 9200
Screen Formats	4:3	16:10	16:9
Overall Dimensions	1868mm x 1329mm 973.5in x 52.3in)	2105mm x 1329mm (82.9in x 52.3in)	2336mm x 1329mm (92in x 52.3in)
Active Area Dimensions	1628mm x 1175mm (64in x 46in)	1865mm x 1175mm (73.4in x 46.3in)	2095mm x 1175mm (82.5in x 46.3in)
Active Area Diagonal	2000mm (78.7in)	2196mm (86.5in)	2394mm (94.3in)
Actual Image Diagonal	1958mm (77.1in)	2193mm (86.4in)	2392mm (94.2in)
Board Weight	37kg (81.6lb)	40kg (88lb)	48kg (106lb)
Packed Weight	52kg (114.6lb)	57kg (126lb)	65kg (143lb)
Packed Dimensions	2025mm x 1500mm x 110mm (79.9in x 59in x 4.3in)	2270mm x 1500mm x 110mm (89.4in x 59.1in x 4.3in)	2572 mm x 1495mm x 110mm (101.3in x 58.9in x 4.33in)

MINIMUM COMPUTER REQUIREMENTS

Operating Systems	Windows XP SP3 and above (XP/Vista/7); Mac OSX 10.4.11 – 10.6.4 (Tiger/Leopard/Snow Leopard); Linux Ubuntu 9.10 or 10.04; Debian Lenny; Linex Colegios 2010; Linkat 3; ALT_Linux (Russia)
PC	2.0 GHz Intel Core 2 Duo or faster for HD-quality videos, 1 GB of RAM is required to play HD-quality videos, 1024 x 768 resolution, 1.5 GB of Free Disk Space
Mac	2.0 GHz Intel Core 2 Duo, 512 MB of RAM, 1024 x 768 resolution, 3.0 GB of Free Disk Space
Linux	2.0 GHz Processor or faster for HD-quality videos, 1 GB of RAM is required to play HD-quality videos, 1024 x 768 resolution, 1.5 GB of Free Disk Space

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ADJUSTABLE FRAME SPECIFICATIONS

Projector Model	Short Throw	Extreme Short Throw
Height Settings	Height-adjustable mount, with 600mm (23.6in) of adjustment from 350mm (13.8in) to 950mm (37.4in) ± 50mm (1.9in). Top and bottom limit stops are fitted if the full range of movement is not required/appropriate. Height adjustment is powered by an electrical motor and is operated using a switch on the side of the stand	Height-adjustable mount, with 600mm (23.6in) of adjustment from 350mm (13.8in) to 950mm (37.4in) ± 50mm (1.9in). Top and bottom limit stops are fitted if the full range of movement is not required/appropriate. Height adjustment is powered by an electrical motor and is operated using a switch on the side of the stand
Projector Mount	Aluminium arm, extends 1605mm (63in) from the wall, adjusts with the height of the ActivBoard reducing the need for specific re-calibration following height adjustment	Aluminium arm, extends 550mm (21.7in) from the wall, adjusts with the height of the ActivBoard reducing the need for specific re-calibration following height adjustment
Room Height Requirements	Min. 2.66m (104.7in) for full range operation	Min. 2.66m (104.7in) for full range operation
Integrated Power Management	For ActivBoard, Projector and Actuator	For ActivBoard, Projector and Actuator
Actuator	Input Voltage: 24VDC Max Load: 750N Static Load: more than 750N Speed: 30mm/s (no load), 20mm/s (750N) Stroke Length: 600 ± 2mm Retracted Length: 795 ± 2mm End Mounting Dimension: H Type, ø10.1 hole, 6.3mm Slot Limit Switch: Built-in Duty Cycle: S2-10min Temperature: -26° to 65°C IP Degree: IP54 AC-DC Adaptor: Input Voltage: 100 ~ 240VAC Output Voltage: 29VDC Current: 2Amp (4Amp protected) Cable and Plug: 1.5m, IEC Plug	Input Voltage: 24VDC Max Load: 750N Static Load: more than 750N Speed: 30mm/s (no load), 20mm/s (750N) Stroke Length: 600 ± 2mm Retracted Length: 795 ± 2mm End Mounting Dimension: H Type, ø10.1 hole, 6.3mm Slot Limit Switch: Built-in Duty Cycle: S2-10min Temperature: -26° to 65°C IP Degree: IP54 AC-DC Adaptor: Input Voltage: 100 ~ 240VAC Output Voltage: 29VDC Current: 2Amp (4Amp protected) Cable and Plug: 1.5m, IEC Plug
Frame Weight (approx.)	54.8kg (120.8lb) excl. board, projector and cabling	52.2kg (115.1lb) excl. board, projector and cabling
Connectivity Panel	Connectivity panel with inputs for 2 x fully wired VGA (to support VESA DDC) plus 3.5mm stereo jack audio inputs, USB-B input (for ActivBoard), S-Video, composite video plus auxiliary audio jack inputs, Cat 5e Ethernet input. Connectivity panel can be mounted on the left or right-hand side of the frame	Connectivity panel with inputs for 2 x fully wired VGA (to support VESA DDC) plus 3.5mm stereo jack audio inputs, USB-B input (for ActivBoard), S-Video, composite video plus auxiliary audio jack inputs, Cat 5e Ethernet input. Connectivity panel can be mounted on the left or right-hand side of the frame

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ADJUSTABLE FRAME SPECIFICATIONS (CONTINUED)

Cables	Cable assembly includes; 2 x 4m (13.1ft) VGA panel mount (fully wired to support VESA DDC), 4m (13.1ft) S-Video panel mount, 4m (13.1ft) composite video panel mount, 4m (13.1ft) Ethernet panel mount, 2.8m (9.2ft) USB cable, 2.5m (8.2ft) right angle stereo jack to panel mount jack socket, 2.5m (8.2ft) right angle stereo jack to panel mount phono pair, for PC audio input. To connect the computer to the face plate: 2m (6.6ft) USB patch cable; and a 2m (6.6ft) VGA cable provided in the projector box	Cable assembly includes; 2 x 4m (13.1ft) VGA panel mount (fully wired to support VESA DDC), 4m (13.1ft) S-Video panel mount, 4m (13.1ft) composite video panel mount, 4m (13.1ft) Ethernet panel mount, 2.8m (9.2ft) USB cable, 2.5m (8.2ft) right angle stereo jack to panel mount jack socket, 2.5m (8.2ft) right angle stereo jack to panel mount phono pair, for PC audio input. To connect the computer to the face plate: 2m (6.6ft) USB patch cable; and a 2m (6.6ft) VGA cable provided in the projector box
Pack Weights & Dimensions	**Box 1 of 3:** 22.4kg (49.4lb) Dimensions: 217mm x 1427mm x 467mm (8.54in x 56.18in x 18.39in) Contents: Boom **Box 2 of 3:** 27kg (59.5lb) Dimensions: 182mm x 1652mm x 442mm (7.2in x 65in x 17.4in) Contents: Spine **Box 3 of 3:** 15kg (33.1lb) Dimensions: 128mm x 1782mm x 822mm (5.04in x 70.16in x 32.36in) Contents: Frame	**Box 1 of 3:** 19.6kg (43.2lb) Dimensions: 217mm x 1427mm x 467mm (8.54in x 56.18in x 18.39in) Contents: Boom **Box 2 of 3:** 27kg (59.5lb) Dimensions: 182mm x 1652mm x 442mm (7.2in x 65in x 17.4in) Contents: Spine **Box 3 of 3:** 15kg (33.1lb) Dimensions: 128mm x 1782mm x 822mm (5.04in x 70.16in x 32.36in) Contents: Frame

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PROJECTOR SPECIFICATIONS

Model	**EST-P1** (DLP)	**PRM-35** (DLP)	**PRM-30a** (LCD)
Native Resolution	WXGA (1280 x 800)	WXGA (1280 x 800)	WXGA (1280 x 800)
Compressed Resolution	up to 1080i	up to 1080i	up to 1080i
Typical Colours	16.77 million colours	16.77 million colours	16.77 million colours
Brightness (ANSI lumens)	2200 ANSI (normal) 2500 ANSI (high)	2100 ANSI (normal) 2500 ANSI (high)	1900 ANSI (normal) 2500 ANSI (high)
Contrast Ratio	2000:1	2000:1	500:1
Noise Level	27dB (normal) 31dB (high brightness mode)	32dB (normal) 36dB (high brightness mode)	29dB (normal) 36dB (high brightness mode)
Dimensions (w x d x h)	354mm x 319mm x 157mm (13.9in x 12.6in x 6.1in) not including lens 354mm x 411mm x 219mm (13.9in x 16.1in x 8.6in) including lens	306mm x 275mm x 97mm (12in x 3.8in x 10.1in)	382mm x 430mm x 129mm (15in x 16.9in x 5in)
Weight	9.3kg (20.5lb)	4.1kg (9.1lb)	7.1kg (15.6lb)
Aspect Ratio	16:10 (native), 4:3, 16:9	16:10 (native), 4:3, 16:9	16:10 (native), 4:3, 16:9
Power Consumption	290W (<1W standby)	230W (<1W standby)	317W (<0.8W standby)
Device Type	DLP Technology	DLP Technology	LCD Technology
Focus	Manual Focus	Manual Focus	Manual Focus
Zoom	N/A	Digital Zoom	Digital Zoom
Focal Length	F=2.4	F=2.86	Fixed
Projection Distance	0.39m ~ 0.56m (15in ~ 22in)	0.54m ~ 1.22m (21.3in ~ 48in)	0.54m ~ 1.22m (21.3in ~ 48in)
Projection Screen Size	1.98m ~2.79m (78in ~ 110in)	1.27m ~ 2.79m (50in ~110in)	1.27m ~ 2.79m (50in ~110in)
Lamp Type	220W lamp	230W lamp	230W lamp
Lamp Life	6000hrs (normal), 4000hrs (high)	6000hrs (normal), 4000hrs (high)	4000 hrs (normal), 3000 hrs (high)
Keystone Correction	Vertical: max ±15°	Vertical: max ±15°	Vertical: max ±20°
Operating Temperature	5°C ~ 35°C (41°F ~ 95°F)	5°C ~ 35°C (41°F ~ 95°F)	5°C ~ 35°C (41°F ~ 95°F)
Power Supply Voltage	100 - 240V AC, 50/60Hz	100 ~ 240V AC, 50/60Hz	100 ~ 240V AC, 50/60Hz
Horizontal Scan Rate	15Hz ~ 90kHz	15Hz ~ 90kHz	15Hz ~ 90kHz
Vertical Scan Rate	43Hz ~ 85Hz	50Hz ~ 85Hz	50Hz ~ 85Hz

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PROJECTOR SPECIFICATIONS (CONTINUED)

Computer Compatibility	IBM PC and Compatibles; Apple Macintosh, iMac, and VESA Standards WSXGA+ (1,680 x 1,050), WXGA+ (1,440 x 900), WXGA (1,280 x 800, 1,280 x 768), UXGA (1,600 x 1,200), SXGA+ (1,400 x 1,050), SXGA (1,280 x 1,024), XGA (1,024 x 768), SVGA (800 x 600), VGA (640 x 480)	IBM PC and Compatibles; Apple Macintosh, iMac, and VESA Standards WSXGA+ (1,680 x 1,050), WXGA+ (1,440 x 900), WXGA (1,280 x 800, 1,280 x 768), UXGA (1,600 x 1,200), SXGA+ (1,400 x 1,050), SXGA (1,280 x 1,024), XGA (1,024 x 768), SVGA (800 x 600), VGA (640 x 480)	IBM PC and Compatibles; Apple Macintosh, iMac, and VESA Standards WSXGA+ (1,680 x 1,050), WXGA+ (1,440 x 900), WXGA (1,280 x 800, 1,280 x 768), UXGA (1,600 x 1,200), SXGA+ (1,400 x 1,050), SXGA (1,280 x 1,024), XGA (1,024 x 768), SVGA (800 x 600), VGA (640 x 480)
Video Compatibility	NTSC (3.58/4.43), PAL (B/D/G/H/I/M/N), SECAM (B/D/G/K/K1/L), HDTV (720p, 1080i, 1035i), EDTV (480p, 575i), SDTV (480i, 576i)	NTSC (3.58/4.43), PAL (B/D/G/H/I/M/N), SECAM (B/D/G/K/K1/L), HDTV (720p, 1080i, 1035i), EDTV (480p, 575i), SDTV (480i, 576i)	NTSC (3.58/4.43), PAL (B/D/G/H/I/M/N), SECAM (B/D/G/K/K1/L), HDTV (720p, 1080i, 1035i), EDTV (480p, 575i), SDTV (480i, 576i)
Inputs/Outputs	D-sub 15 (RGB) x 2 D-sub 15 (Monitor out) x 1 HDMI V1.3 only for Video x 1 S-Video x 1 Composite Video (RCA) x 1 USB control x 1 Networking LAN (RJ45) x 1 RS-232C (D-sub 9) x 1	D-sub 15 (RGB) x 2 D-sub 15 (Monitor out) x 1 HDMI V.1.3 only for Video x 1 S-Video x 1 Composite Video (RCA) x 1 USB control x1 Networking LAN (RJ45) x 1 RS-232C (D-sub 9) x 1	D-sub 15 (RGB) x 1 D-sub 15 (RGB) selectable x 1 HDMI (Digital RGB) x 1 S-Video x 1 Composite Video (RCA) x 1 RCA (white/red) x 1 Networking LAN (RJ45) x 1 RS-232C (D-sub 9) x 1 Stereo mini-jack x 1
Colour	Silver	Silver	Silver
Security	Kensington Lock, Security cable bar option, pin code security, remote control operated only	Kensington Lock, Security cable bar option, pin code security, remote control operated only	Kensington Lock, Security cable bar option, pin code security, remote control operated only
On-screen Menu	Arabic, Chinese (Simplified), Chinese (Traditional), Czech, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, Thai, Turkish	Arabic, Chinese (Simplified), Chinese (Traditional), Czech, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Korean, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, Turkish	Arabic, Chinese (Simplified), Chinese (Traditional), Danish, Dutch, English, Finnish, French, German, Hungarian, Italian, Japanese, Kazak, Korean, Norwegian, Polish, Portuguese, Portuguese (Brazilian), Romanian, Russian, Spanish, Swedish, Turkish
Advanced Features	Filter-less 3D Ready Crestron RoomView Express Quick Lamp Access Direct power on/off Closed Caption	Sealed Unit; Filter-less 3D Ready Crestron RoomView Express Quick Lamp Access Direct power on/off Closed Caption	Long Life Filter – 4000hrs Crestron RoomView Express Cable Management Cover Quick Lamp Access Direct power on/off Closed Caption
Packed Contents List	Projector, Power cord, computer cable (D-sub15 – D-sub15), wireless remote, owner's manual (CD - ROM & Quick Start Guide)	Projector, Power cord, computer cable (D-sub15 – D-sub15), wireless remote, owner's manual (CD - ROM & Quick Start Guide)	Projector, Power cord, computer cable (D-sub15 – D-sub15), wireless remote, owner's manual (CD - ROM & Quick Start Guide)
Pack Weights and Dimensions	**Box 1 of 1:** 13.5kg (29.7lb) Dimensions: 572mm x 496mm x 310mm (22.5in x 19.5in x 12.2in) Contents: Projector	**Box 1 of 1:** 4.9kg (10.8lb) Dimensions: 396mm x 341mm x 181mm (15.5in x 13.4in x 7.1in) Contents: Projector	**Box 1 of 1:** 9.5kg (20.9lb) Dimensions: 510mm x 470mm x 240mm (20in x 18.5in x 9.4in) Contents: Projector

ActivBoard Systems/Boards SS 07/12 V4.0 UK

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